



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcorn Robert C. Millonig Lawrence B. Bugaisky Donald J. Featherstone Michael V. Messinger Judith U. Kim Timothy J. Shea, Jr. Patrick E. Garrett Jeffrey T. Helvey Heidi L. Kraus Albert L. Ferro\* Donald R. Banowit Peter A. Jackman Jeresa U. Medler Jeffrey S. Weaver Kendrick P. Patterson Vincent L. Capuano Eldora Ellison Floyd Thomas C. Fiala Brian J. Del Buono Virgil Lee Beaston Theodore A. Wood Elizabeth J. Haanes Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rae Lynn Prengaman George S. Bardmesse Daniel A. Klein\* Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tracy L. Muller\* LuAnne M. DeSantis Ann E. Summerfield Tiera S. Coston Aric W. Ledford\* Helene C. Carlson Timothy A. Doyle\* Jessica L. Parezo Gaby L. Longsworth\* Lori A. Gordon\* Nicole D. Dretar\* Ted J. Ebersole Jyoti C. Iyer\* Laura A. Vogel

Registered Patent Agents-Karen R. Markowicz Nancy J. Leith Matthew J. Dowd Aaron L. Schwartz Katrina Yujian Pei Quach Bryan L. Sketton Robert A. Schwartzman Teresa A. Colella Jeffrey S. Lundgren Victoria S. Rutherford Michelle K. Holoubek Robert H. DeSelms Simon J. Elliott Julie A. Heider Mita Mukherjee Scott M. Woodhouse Michael G. Penn Christopher J. Walsh

Of Counsel Kenneth C. Bass III Evan R. Smith Marvin C. Guthrie

\*Admitted only in Maryland

\* Admitted only in Virginia

\* Practice Limited to
Federal Agencies

(202) 772-8587 INTERNET ADDRESS: PGARRETT@SKGF.COM

October 6, 2004

RECEIVED

OCT 1 4 2004

Technology Center 2600

Art Unit 2685

WRITER'S DIRECT NUMBER:

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 09/855,851; Filed: May 16, 2001

For: Apparatus, System, and Method for Down-Converting

and Up-Converting Electromagnetic Signals

Inventors:

Sorrells et al.

Our Ref:

1744.1260001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Fee Transmittal Form (PTO/SB/17);
- 2. Petition for Extension of Time Under 37 C.F.R. § 1.136(a)(1);
- 3. Reply to Restriction Requirement;
- 4. Credit Card Payment Form (PTO-2038); and
- 5. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox P.L.C.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540; www.skqf.com

Commissioner for Patents October 6, 2004 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

PEG/NDD/sjc Enclosures

318734\_1.DOC

PTO/SB/17 (10-03)
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2005

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$980.00

Complete if Known					
Application Number	09/855,851	RECEIVE			
Filing Date	May 16, 2001	NECEIVEL			
First Named Inventor	David F. Sor	rells OCT 1 4 2004			
Examiner Name	Le, Lana N.				
Art Unit	2685	Technology Center 26			
Attorney Docket No.	1744.1260001	<u> </u>			

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)					
Check X Credit card Money X Other** None		3. ADDITIONAL FEES					
*Charge any deficiencies or credit any overpayments in		Entity	Small	Entity			
Deposit Account: the fees to Deposit Acct. No. 19-0036.  Deposit Account  19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Number	1051	130	2051	65	Surcharge - late filing fee or oath		
Deposit Account P.L. L.C.		50	2052	25	Surcharge - late provisional filing fee or cover sheet		
Name The Director is authorized to: (check all that apply)		130	1053	130	Non-English specification		
Charge fee(s) indicated below Credit any overpayments		2,520	1812	2,520	For filing a request for ex parte reexamination		
Charge any additional fee(s) or any underpayment of fee(s)		920*	1804	920*	Requesting publication of SIR prior to Examiner action		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
		110	2251	55	Extension for reply within first month		
FEE CALCULATION	1252	430	2252	215	Extension for reply within second month		
1. BASIC FILING FEE Large Entity Small Entity	1253	980	2253	490	Extension for reply within third month	\$980.00	
Fee Fee Fee Fee Fee Paid Fee Paid Code (\$) Code (\$)	1254	1,530	2254	765	Extension for reply within fourth month		
1001 790 2001 395 Utility filing fee	1255	2,080	2255	1,040	Extension for reply within fifth month		
1002 350 2002 175 Design filing fee	1401	340	2401	170	Notice of Appeal		
1003 550 2003 275 Plant filing fee	1402	340	2402	170	Filing a brief in support of an appeal		
1004 790 2004 395 Reissue filing fee	1403	300	2403	150	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 0.00	1452	110	2452	55	Petition to revive - unavoidable		
	1453	1,370	2453	685	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,370	2501	685	Utility issue fee (or reissue)		
Extra Claims below Fee Paid	1502	490	2502	245	Design issue fee		
Total Claims 20 **= X =	1503	660	2503	330	Plant issue fee		
Claims	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
Large Entity   Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806	180	Submission of Information Disclosure Stmt		
Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)		
1202 18 2202 9 Claims in excess of 20 1201 88 2201 44 Independent claims in excess of 3	1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))		
1203 300 2203 150 Multiple dependent claim, if not paid	1810	790	2810	395	For each additional invention to be		
1204 86 2204 43 ** Reissue independent claims					examined (37 CFR 1.129(b))		
over original patent	1801	790	2801	395			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	<b></b>	
SUBTOTAL (2) (\$) 0.00 Other fee (specify)							
**or number previously paid, if greater, For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) \$980.6							

(Complete (if applicable)) SUBMITTED BY Registration No. Telephone Name (Print/Type) (202) 371-2600 39,987 Patrick E. Garrett (Attorney/Agent) Jamba 10-6-04 Signature

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.